



UNITED STATES PATENT AND TRADEMARK OFFICE

Receipt
IFW

Applicant: GOODWIN et al.
Serial No.: 10/567,806
Filed: February 8, 2006
Entitled: Scroll Compressor with Multiple Isolated Inlet Ports
Dkt. No.: M03B119

Group No.: 3748
Examiner: n/a

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING

I hereby certify that this correspondence and every writing referred to herein as being enclosed is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on JULY 17, 2006.
(Date)

Betty Lee

Printed name of person signing this certificate

Betty Lee

Signature of person mailing

Dear Sir:

REQUEST FOR CORRECTED FILING RECEIPT

Attached is a copy of the official filing receipt, mailed July 5, 2006, received from the PTO in the above application for which issuance of a corrected filing receipt is respectfully requested.

There is an error with respect to the title of the subject application. Please change "Scroll Compressor Multipile Isolated Intel Ports" to read: Scroll Compressor with Multiple Isolated Inlet Ports. The correct title appears on the first page of the specification of International Application No. PCT/GB2004/003429 and is attached for your reference.

It is believed that the need for correction is not due to any error by applicant and that no fee is due. However, as a precaution, the Commissioner is hereby authorized to charge to Deposit Account No. 02-2865 any fee which may be required. This letter is submitted in triplicate.

Respectfully submitted,

Date:

July 17, 2006
The BOC Group, Inc.
Legal Services - Intellectual Property
575 Mountain Ave.
Murray Hill, NJ 07974
Tel: (908) 771-6469

Ira Lee Zebrak
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Attachments
Official Filing Receipt
First page of specification

ILZ:bjl

SCROLL COMPRESSOR WITH MULTIPLE ISOLATED INLET PORTS

The present invention relates to an improved scroll compressor, and scroll wall
5 arrangement therefor.

A typical scroll compressor is shown in Figures 1 and 2. Figure 1 is a cross-
section of a scroll compressor 10, which comprises a fixed scroll 12 and an
orbiting scroll 14. The fixed scroll comprises a generally planar disc 16 from
10 which a scroll wall 18 extends perpendicularly. The orbiting scroll comprises a
generally planar disc 20 from which a scroll wall 22 extends perpendicularly. A
motor 24 is provided for rotating shaft 26. Shaft 26 has an eccentric shaft portion
28 fixed to the orbiting scroll 14. The eccentric motion of shaft portion 28 causes
an orbiting motion of the orbiting scroll wall 22 relative to the fixed scroll wall 18.
15 This relative motion causes fluid to be pumped from an inlet 30 provided at an
outer radial portion of the scroll wall arrangement to an outlet, or exhaust, 32
provided at a radially central portion of the scroll wall arrangement. Gas enters
the compressor through a compressor inlet (not shown).

20 Figure 2 is a cross-section of the scroll wall arrangement of the scroll compressor
taken along line II-II in Figure 1. A fluid flow path 34 is shown in Figure 2 by the
arrowed line and follows a generally spiral path from the inlet 30 to the outlet 32 of
the scroll wall arrangement. Gas enters through inlet 30 at a first pressure, is
compressed over the course of four revolutions or wraps and is exhausted from
25 the pump through outlet 32 at a higher pressure. The number of wraps can be
more or less than shown in Figure 2 and is selected depending on the pumping
requirements. The relative orbiting motion of the scroll walls causes a plurality of
crescent shaped pockets to be formed between the walls and forced radially
inwardly, gradually being compressed in size. As is known to the skilled person,
30 the extent of these crescent shaped pockets is approximately 360 degrees and the
extent of the walls trapping a crescent shaped pocket is known as a wrap.

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UNITED STATES DEPARTMENT OF COMMERCE
 Intellectual Property Division
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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/567,806	02/08/2006	3748	1100	M03B119	2	13	4

020411
 THE BOC GROUP, INC.
 575 MOUNTAIN AVENUE
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CONFIRMATION NO. 4457

FILING RECEIPT



OC000000019472583

Date Mailed: 07/05/2006

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

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Power of Attorney: The patent practitioners associated with Customer Number 020411.

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/GB04/03429 08/10/2004

Foreign Applications

UNITED KINGDOM 0319513.8 08/19/2003

If Required, Foreign Filing License Granted: 07/01/2006

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US10/567,806**

Projected Publication Date: 10/12/2006

Non-Publication Request: No

Early Publication Request: No

Title~~Scroll compressor multiple isolated inlet ports~~

Scroll Compressor with Multiple Isolated Inlet Ports

Preliminary Class

418

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